

PTO/SB/08B (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Project of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number 10/689,316

Filing Date 10/20/2003

First Named Inventor D. E. Hill et al

Art Unit 1743

Examiner Name Jeffrey R. Snay

Attorney Docket Number 1266.0

Sheet

1

of

1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PSM	1	F. JACQUES and Y. BOUDEY, "A Biosensor for Water Quality Monitoring," IEEE Instrumentation & Measurement Tech. Conf. Brussels, Belgium, 1996, pp 1354-1358.	
	2	RUE DU MAD, "Fluotox Water Pollution Biosensor: Detection of Traces of Herbicides: Atrazine, Diuron, etc....," Environment Arnatronic Plus, Arnville France.	

Examiner
SignatureDate
Considered

6/22/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not
considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO
to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including
gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the
amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and
Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449/PTO

(Use as many sheets as necessary)

Sheet	1	of	5
-------	---	----	---

Complete if Known

Application Number	
Filing Date	
First Named Inventor	D. E. Hill et al
Art Unit	
Examiner Name	
Attorney Docket Number	1266.0

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
PSH	1	US- 4,089,209	5/16/1978	Grana et al	
	2	US- 4,500,641	2/19/1985	van den Engh et al	
	3	US- 4,549,427	10/29/1985	Kolesar, Jr.	
	4	US- 4,752,226	6/21/1988	Akers et al	
	5	US- 4,768,390	9/06/2988	Baker et al	
	6	US- 4,906,440	3/06/1990	Kolesar, Jr.	
	7	US- 4,942,303	7/17/1990	Kolber et al	
	8	US- 5,014,225	5/07/1991	Vidaver et al	
	9	US- 5,532,679	7/02/1996	Baxter, Jr.	
	10	US- 5,654,692	8/05/1997	Baxter, Jr. et al	
	11	US- 5,866,430	2/02/1999	Grow	
	12	US- 5,922,183	7/13/1999	Rauh	
	13	US- 5,965,882	10/12/1999	Megerle et al	
	14	US- 6,083,740	7/04/2000	Kodo et al	
	15	US- 6,119,630	9/19/2000	Lobsiger et al	
	16	US- 6,119,976	9/19/2000	Rogers	
	17	US- 6,121,053	9/19/2000	Kolber et al	
	18	US- 6,316,268 B1	11/13/2001	Yang et al	
	19	US- 6,402,031 B1	6/11/2002	Hall	

[illegible]

Examiner
Signature

Date	
Considered	

6/22/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1448/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2

of

5

Complete if Known

Application Number

Filing Date

First Named Inventor

D. E. Hill

Art Unit	Unit Title	Unit Description	Unit Objectives	Unit Activities	Unit Assessments	Unit Resources	Unit Materials	Unit Notes
1	Unit 1: Introduction to Art	Introduction to Art and the Art Process	Students will understand the basic elements and principles of art.	Students will create a simple artwork using basic materials.	Students will evaluate their own and others' artwork.	Art History Textbook, Art Appreciation Video	Art Supplies, Canvas, Paint	
2	Unit 2: Drawing Fundamentals	Introduction to Drawing and the Drawing Process	Students will understand the basic elements and principles of drawing.	Students will create a simple drawing using basic materials.	Students will evaluate their own and others' drawing.	Art History Textbook, Drawing Fundamentals Video	Drawing Supplies, Paper, Pencil	
3	Unit 3: Sculpture Fundamentals	Introduction to Sculpture and the Sculpture Process	Students will understand the basic elements and principles of sculpture.	Students will create a simple sculpture using basic materials.	Students will evaluate their own and others' sculpture.	Art History Textbook, Sculpture Fundamentals Video	Sculpture Supplies, Clay, Tools	
4	Unit 4: Painting Fundamentals	Introduction to Painting and the Painting Process	Students will understand the basic elements and principles of painting.	Students will create a simple painting using basic materials.	Students will evaluate their own and others' painting.	Art History Textbook, Painting Fundamentals Video	Painting Supplies, Canvas, Paint, Brushes	
5	Unit 5: Art History Fundamentals	Introduction to Art History and the Art History Process	Students will understand the basic elements and principles of art history.	Students will create a simple artwork using basic materials.	Students will evaluate their own and others' artwork.	Art History Textbook, Art History Fundamentals Video	Art Supplies, Canvas, Paint	

Examiner Name

Attorney Docket Number

1266.0

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ^o
		Country Code* Number* Kind Code* (if known)				
	26	DD 248433A1	08/05/1987	Reinhold Koepp		
	27	EP 0811842A1	12/10/1997	Jean-Marie Ory		
PSH	28	WO 99/32876	07/01/1999	Alfredo Lucia		
	29	DE 19857792A1	07/20/2000	U. Schreiber		
PSH	30	CA 2,265,304	03/15/1999	S. Hunt et al		
PSH	31	DE 41 40 414 A1	06/09/1993			

**Examiner
Signature**

Date
Considered

6/22/07

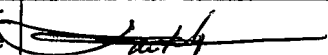
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	
		Filing Date	
		First Named Inventor	D. E. Hill
		Art Unit	
		Examiner Name	
Sheet 3 of 5	Attorney Docket Number	1266.0	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PSH	32	G.H.KRAUSE, et al "Chlorophyll Fluorescence & Photosynthesis: The Basics," Annu. Rev. Plant Physiol. Plant Mol. Biol. (1991) V. 42, p. 313-49	
PSH	33	G.H.KRAUSE, et al "Photoinduced Quenching of Chlorophyll Fluorescence in Intact Chloroplasts & Algae," Biochimica et Biophysica Acta, V. 679, p. 116-124 (1982)	
PSH	34	U.SCHREIBER et al "Chlorophyll Fluorescence as a Noninvasive Indicator for Rapid Assessment of In Vivo Photosynthesis," Ecological Studies, 100, p. 49-70 (1994)	
PSH	35	BERNARD GENTY et al "The Relationship Between the Quantum Yield of Photosynthetic Electron Transport & Quenching of Chlorophyll Fluorescence," Biochimica et Biophysica Acta, 990, p. 87-92 (1989)	
PSH	36	O.VAN KOOTEN et al "The Use of Chlorophyll Fluorescence Nomenclature in Plant Stress Physiology," Photosynthesis Research, 15, p. 147-150 (1990)	
PSH	37	G.E.EDWARDS et al "Can CO2 Assimilation in Maize Leaves be Predicted Accurately from Chlorophyll Fluorescence Analysis," Photosynthesis Res., 37, p. 89-102 (1993)	
PSH	38	G.G.R.SEATON et al "Chlorophyll Fluorescence as a Measure of Photosynthetic Carbon Assimilation," Proc.R.Soc.London Ser. B, 242, p. 17-108 (1995)	
PSH	39	MARTINE NAESSENS et al "Fiber Optic Biosensor Using Chlorella Vulgaris for Determination of Toxic Compounds," Ecotoxicology and Env. Safety, 46, p. 181-185 (2000)	
PSH	40	HEINZ WALZ, "Internet Web Site http://www.walz.com eg, http://www.walz.com/xepam.htm & http://www.walz.com/pamzta.htm "	
PSH	41	G.DUBELAAR et al "Design & First Results of CytoBuoy: A Wireless Flow Cytometer for In Situ Analysis of Marine & Fresh Waters," Cytometer 37, p. 247-254 (1999)	

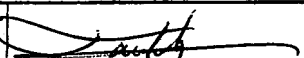
Examiner Signature 	Date Considered 6/22/07
--	-------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.
 This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	
		Filing Date	
		First Named Inventor	D. E. Hill
		Art Unit	
		Examiner Name	
Sheet	4	of	5
		Attorney Docket Number	1266.0

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PSH	42	R.K.GELDA et al "Estimating Oxygen Exchange Across the Air-Water Interface of a Hypereutrophic Lake," Hydrobiologia, 487, p. 243-254 (2002)	
PSH	43	M.RODRIGUEZ,Jr. et al "Biosensors for Rapid Monitoring of Primary-Source Drinking Water Using Naturally Occurring Photosynthesis," Biosensors & Bioelectronics 17, p.843-849 (2002)	
PSH	44	A.PINTO et al "Chlorophyll-A Determination via Continuous Measurement of Plankton Fluorescence:Methodology Development" Wat. Res. Vol. 35, No. 16, p.3977-3981 (2001)	
PSH	45	C.A.SANDERS et al "Stand-off Tissue-Based Biosensors for the Detection of Chemical Warfare Agents using Photosynthetic Fluorescence Induction," Biosensors & Bioelectronics 16 p. 439-446 (2001)	
PSH	46	K.WILD-ALLEN et al "Observations of Diffuse Upwelling Irradiance & chlorophyll in Case I Waters Near the Canary Islands (Spain)"Optics & Laser Technology, V29, No. 1 P. 3-8 (1997)	
PSH	47	T.MOORE et al "Real-Time River Level Monitoring Using GPS Heighting," GPS Solutions, V.4, No. 2, p. 63-67 (2000)	
PSH	48	D.LAPOTA et al "Development of an Autonomous Bioluminescence Buoy (BioBuoy) for Long-term Ocean Measurements," SPAWAR Systems Center	
PSH	49	U.A.KORDE, "A Note on the Hydrodynamics of a Tail Tube Buoy," Ocean Engineering 27, p. 1473-1484 (2000)	
PSH	50	M.KISHINO et al "Verification Plan of Ocean Color & Temperature Scanner Atmospheric Correction & Phytoplankton Pigment by Moored Optical Buoy System," J. of Geo. Res., V102, D14, p.17,197-17,207 (1997)	
PSH	51	Drinking Water Standards and Health Advisories, Office of Water U. S. Environmental Protection Agency, Washington D:C. (2000)	

Examiner Signature		Date Considered	6/22/07
--------------------	---	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	
Filing Date	
First Named Inventor	D. E. Hill
Art Unit	
Examiner Name	
Attorney Docket Number	1266.0


Sheet 5

of

5

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PSH	52	J.W.KLETT et al, "Flexible Towpreg for the Fabrication of High Thermal Conductivity Carbon/Carbon Composites," Carbon, V.33, No. 10, p. 1485-1503 (1995)	
PSH	53	Guidelines for Chemical Warfare Agents in Military Field Drinking Water, National Academy Press, Washington, D.C. (1995)	

Examiner Signature		Date Considered	6/22/07
--------------------	---	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.